Application Serial No. 10/570111 Docket No.: 1093-149 PCT US Response to May 8, 2009 Non-Final Office Action

## **LISTING OF CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A process for the production of a personalised, optically variable element having polarising properties, wherein

to produce the optically variable element a film body which comprises two or more layers and which has an LCP layer comprising a liquid crystal material is applied to a substrate body which has an orientation layer for the orientation of liquid crystals, that the orientation layer of the substrate body is personalised prior to application of the film body to the substrate body, and that the film body is applied to the personalised orientation layer of the substrate body in such a way that the LCP layer of the film body lies on the personalised orientation layer of the substrate body for the orientation of liquid crystals of the LCP layer of the film body, wherein the orientation layer of the substrate body is personalised by partial printing on the orientation layer.

- 2. (Cancelled)
- 3. (Currently Amended) A process according to claim 1 for the production of a personalised, optically variable element having polarising properties, wherein

to produce the optically variable element a film body which comprises two or more layers and which has an LCP layer comprising a liquid crystal material is applied to a substrate body which has an orientation layer for the orientation of liquid crystals, that the orientation layer of the substrate body is personalised prior to application of the film body to the substrate body, and that the film body is applied to the personalised orientation layer of the substrate body in such a way that the LCP layer of the film body lies on the personalised orientation layer of the substrate body for the orientation of liquid crystals of the LCP layer of the film body, wherein the

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orientation layer of the substrate body is personalised by partial transfer of a differently oriented orientation layer on to the orientation layer of the substrate body.

4. (Currently Amended) A process according to claim 1 for the production of a personalised, optically variable element having polarising properties, wherein

to produce the optically variable element a film body which comprises two or more layers and which has an LCP layer comprising a liquid crystal material is applied to a substrate body which has an orientation layer for the orientation of liquid crystals, that the orientation layer of the substrate body is personalised prior to application of the film body to the substrate body, and that the film body is applied to the personalised orientation layer of the substrate body in such a way that the LCP layer of the film body lies on the personalised orientation layer of the substrate body for the orientation of liquid crystals of the LCP layer of the film body, wherein the orientation layer of the substrate body is personalised by partial mechanical removal of the orientation layer.

5. (Currently Amended) A process according to claim 1 for the production of a personalised, optically variable element having polarising properties, wherein

to produce the optically variable element a film body which comprises two or more layers and which has an LCP layer comprising a liquid crystal material is applied to a substrate body which has an orientation layer for the orientation of liquid crystals, that the orientation layer of the substrate body is personalised prior to application of the film body to the substrate body, and that the film body is applied to the personalised orientation layer of the substrate body in such a way that the LCP layer of the film body lies on the personalised orientation layer of the substrate body for the orientation of liquid crystals of the LCP layer of the film body, wherein the orientation layer of the substrate body is personalised by partial thermal deformation of the orientation layer.

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6. (Previously Presented) A process according to claim 1, wherein the orientation

layer of the substrate body is personalised by replication of a relief structure into the orientation

layer.

7. (Previously Presented) A process according to claim 1, wherein the orientation

layer of the substrate body is personalised by exposure of the orientation layer.

8. (Previously Presented) A process according to claim 1, wherein alignment of the

liquid crystal material of the LCP layer of the film body is effected at the personalised

orientation layer of the substrate body and wherein the aligned liquid crystal material of the LCP

layer is then fixed.

9. (Previously Presented) A process according to claim 8, wherein the LCP layer of

the film body is heated after application of the film body to the substrate body for alignment of

the liquid crystals.

10. (Previously Presented) A process according to claim 8, wherein a stamping film,

laminating film or sticker film is used as the substrate body.

11. (Previously Presented) A process according to claim 10, wherein the stamping

film, laminating film or sticker film forming the substrate body is applied to a security document

prior to application of the film body to the substrate body.

12. (Previously Presented) A process according to claim 1, wherein the substrate body

has a carrier layer forming a security document.

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13. (Previously Presented) A process according to claim 1, wherein the film body used is a stamping film, laminating film or sticker film which is applied to the substrate body in a hot stamping or laminating process.

14. (Withdrawn) A film system comprising a substrate body and a film body for providing a personalised, optically variable element having polarising properties, wherein

the film body of the film system comprises two or more layers and has an LCP layer comprising a liquid crystal material, wherein the substrate body of the film system has an orientation layer for the orientation of liquid crystals and wherein the film body after personalisation of the orientation layer of the substrate body is applied to the personalised orientation layer of the substrate body in such a way that the LCP layer of the film body lies on the personalised orientation layer of the substrate body for the orientation of liquid crystals of the LCP layer of the film body.

- 15. (Withdrawn) A film system according to claim 14, wherein the orientation layer of the substrate body has UV-functional groups for better adhesion of the film body to the substrate body.
- 16. (Withdrawn) A film system according to claim 14, wherein the film body has a carrier layer and a physically dried LCP layer.
- 17. (Withdrawn) A film system according to claim 14, wherein the substrate body has one or more further layers which generate optical security features.
- 18. (Withdrawn) A film system according to claim 14, wherein the film body has one or more further layers which generate optical security features.

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19. (Withdrawn) A film system according to claim 14, wherein the substrate body and

the film body each have one or more further layers which generate mutually supplemental optical

security features.

20. (Withdrawn) A film system according to claim 14, wherein at least one of the

substrate body and the part of the film body forming a part of the optically variable element has a

retarder layer which has polarising properties.

21. (Previously Presented) A process for the production of a personalised, optically

variable element having polarising properties, the process comprising:

personalizing an orientation layer of a substrate body, the orientation layer being capable

of orienting liquid crystal material;

applying a film body comprising two or more layers and a LCP layer to the substrate

body, wherein the LCP layer comprises a liquid crystal material, wherein said personalizing step

precedes said applying step, said applying step including positioning the LCP layer directly onto

the personalized orientation layer; and

orienting the liquid crystal material in the LCP layer in response to said positioning step.

22. (Previously Presented) A process according to claim 21, wherein said

personalizing step comprises partial printing on the orientation layer.

23. (Previously Presented) A process according to claim 21, wherein said

personalizing step comprises partial transfer of a differently oriented orientation layer on to the

orientation layer of the substrate body.

24. (Previously Presented) A process according to claim 21, wherein said

personalizing step comprises partial thermal deformation of the orientation layer.

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